

SEQUENCE LISTING

SEQ ID NO:1

Human GRP78/BiP amino acid sequence

5

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIA
NDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQ
QDIKFLPFKVVEKKTKPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAAYLGKK
VTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEK
10 NILVFDLGGGTFDVSLTIDNGVFEVVATNGDTHLGGEDFDQRMVMEHFIKLYKK
KTGKDVRKDNRAVQKLRRVEKAKRALSSQHQARIEIESFYEGEDFSETLTRAKF
EELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKE
PSRGINPDEAVAYGAAGVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLI
PRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRG
15 VPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFA
EEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGLSSDKETMEKAVEEKIEW
LESHQDADIEDFKAKKKELE EIVQPIISKLYGSAGPPPTGEEDTAEKDEL

SEQ ID NO:2

Human GRP78/BiP mRNA sequence

1 ACTGGCTGGC AAGATGAAGC TCTCCCTGGT GGCCGCGATG CTGCTGCTGC TCAGCGCGGC
61 GCGGGCCGAG GAGGAGGACA AGAAGGAGGA CGTGGGCACG GTGGTCCGCA TCGACCTGGG
25 121 GACCACCTAC TCCTGCGTCG GCGTGTTCAA GAACGGCCGC GTGGAGATCA TCGCCAACGA
181 TCAGGGCAAC CGCATCACGC CGTCCTATGT CGCCTTCACT CCTGAAGGGG AACGTCTGAT
241 TGGCGATGCC GCCAAGAACC AGCTCACCTC CAACCCCGAG AACACGGTCT TTGACGCCAA
301 GCGGCTCATC GGCCGCACGT GGAATGACCC GTCTGTGCAG CAGGACATCA AGTTCTTGCC
361 GTTCAAGGTG GTTGAAAAGA AACTAAACC ATACATTCAA GTTGATATTG GAGGTGGGCA
30 421 AACAAAGACA TTTGCTCCTG AAGAAATTTT TGCCATGGTT CTCATAAAA TGAAAGAAAC
481 CGCTGAGGCT TATTTGGGAA AGAAGGTTAC CCATGCAGTT GTTACTGTAC CAGCCTATTT
541 TAATGATGCC CAACGCCAAG CAACCAAAGA CGCTGGAAC ATTGCTGGCC TAAATGTTAT
601 GAGGATCATC AACGAGCCTA CGGCAGCTGC TATTGCTTAT GGCCTGGATA AGAGGGAGGG
661 GGAGAAGAAC ATCCTGGTGT TTGACCTGGG TGGCGGAACC TTCGATGTGT CTCTTCTCAC
35 721 CATTGACAAT GGTGTCTTCG AAGTTGTGGC CACTAATGGA GATACTCATC TGGGTGGAGA
781 AGACTTTGAC CAGCGTGTC TGAACACTT CATCAAACG TACAAAAGA AGACGGGCAA

841 AGATGTCAGG AAAGACAATA GAGCTGTGCA GAAACTCCGG CGCGAGGTAG AAAAGGCCAA
901 ACGGGCCCTG TCTTCTCAGC ATCAAGCAAG AATTGAAATT GAGTCCTTCT ATGAAGGAGA
961 AGACTTTTCT GAGACCCCTGA CTCGGGCCAA ATTTGAAGAG CTCAACATGG ATCTGTTCCG
1021 GTCTACTATG AAGCCCGTCC AGAAAGTGTT GGAAGATTCT GATTTGAAGA AGTCTGATAT
5 1081 TGATGAAATT GTTCTTGTTG GTGGCTCGAC TCGAATTCCA AAGATTCAGC AACTGGTTAA
1141 AGAGTTCTTC AATGGCAAGG AACCATCCCG TGGCATAAAC CCAGATGAAG CTGTAGCGTA
1201 TGGTGCTGCT GTCCAGGCTG GTGTGCTCTC TGGTGATCAA GATACAGGTG ACCTGGTACT
1261 GCTTGATGTA TGTCCCCTTA CACTTGGTAT TGAAACTGTG GGAGGTGTCA TGACCAAACCT
1321 GATTCCAAGG AACACAGTGG TGCCTACCAA GAAGTCTCAG ATCTTTTCTA CAGCTTCTGA
10 1381 TAATCAACCA ACTGTTACAA TCAAGGTCTA TGAAGGTGAA AGACCCCTGA CAAAAGACAA
1441 TCATCTTCTG GGTACATTG ATCTGACTGG AATTCCTCCT GCTCCTCGTG GGGTCCCACA
1501 GATTGAAGTC ACCTTTGAGA TAGATGTGAA TGGTATTCTT CGAGTGACAG CTGAAGACAA
1561 GGGTACAGGG AACAAAAATA AGATCACAAT CACCAATGAC CAGAATCGCC TGACACCTGA
1621 AGAAATCGAA AGGATGGTTA ATGATGCTGA GAAGTTTGCT GAGGAAGACA AAAAGCTCAA
15 1681 GGAGCGCATT GATACTAGAA ATGAGTTGGA AAGCTATGCC TATTCTCTAA AGAATCAGAT
1741 TGGAGATAAA GAAAAGCTGG GAGGTAAACT TTCCTCTGAA GATAAGGAGA CCATGGAAAA
1801 AGCTGTAGAA GAAAAGATTG AATGGCTGGA AAGCCACCAA GATGCTGACA TTGAAGACTT
1861 CAAAGCTAAG AAGAAGGAAC TGGAAGAAAT TGTTCACCA ATTATCAGCA AACTCTATGG
1921 AAGTGCAGGC CCTCCCCCAA CTGGTGAAGA GGATACAGCA GAAAAAGATG AGTTGTAGAC
20 1981 ACTGATCTGC TAGTGCTGTA ATATTGT